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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|--|-------------|----------------------|---------------------|------------------|
| 10/517,355 | 11/22/2004 | Kenneth Hun Mok | 930077-2010 | 4259 |
| 7590 03/30/2007 Ronald R Santucci | | | EXAMINER | |
| Frommer Lawr | | LUKTON, DAVID | | |
| 745 Fifth Avenue New York, NY 10151 | | | ART UNIT | PAPER NUMBER |
| 2.0 2011, 2 | | | 1654 | |
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| SHORTENED STATUTORY PERIOD OF RESPONSE | | MAIL DATE | DELIVERY MODE | |
| 3 MONTHS | | 03/30/2007 | PAPER | |

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

| 1)⊠ Responsive to communication(s) filed on 19 January 2006. 2a)⊠ This action is FINAL. 2b)□ This action is non-final. 3)□ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4)☑ Claim(s) 1-5.7.12 and 14 is/are pending in the application. 4a) Of the above claim(s) is/are allowed. 6)☑ Claim(s) is/are allowed. 6)☑ Claim(s) is/are objected to. 8)□ Claim(s) is/are objected to. 8)□ Claim(s) is/are objected to. 8)□ Claim(s) is/are objected to by the Examiner. 10□ The graving(s) filed on is/are: a)□ accepted or b)□ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11)□ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12)□ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)□ All b)□ Some c)□ None of: 1.□ Certified copies of the priority documents have been received in Application No. 3.□ Copies of the certified copies of the priority documents have been received in Application No. 3.□ Copies of the certified copies of the priority documents have been received in Application No. 3.□ Copies of the certified copies of the priority documents have been received in Application No. 3.□ Copies of the certified copies of the priority documents have been received in Application No. 3.□ Copies of the certified copies of the priority documents have been received in Application Promise application from the International Bureau (PCT Rule 17.2(a)). | | | Application No. | Applicant(s) | | | | |
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| David Lukton David Lukton 1654 | Office Action Summary | | 10/517,355 | MOK, KENNETH HUN | | | | |
| The MALING DATE of this communication appears on the cover sheet with the correspondence address — Period for Repty A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extension of time rays be available under the provisions of 3° CFR 1.13(b), in a row-st, however, may raryb be timely filed 1 th O parcid for reply is possible above, the macround statutory parted will apply and will expire SIX (b) MONTHS from the mailing date of this communication. 1 Fallus to reply the specified above, the macround statutory parted will apply and will expire SIX (b) MONTHS from the mailing date of this communication. 1 Fallus to reply within the set or actived period from 10 | | | Examiner | Art Unit | | | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Exercisions of time may be available under the provisions of 37 CFR 1.386p), In on event, however, may a reply be limited in the provisions of 37 CFR 1.386p). The control of the provisions of 37 CFR 1.386p), In on event, however, may a reply be limited in the mailing date of this communication of the provision of the provis | | | David Lukton | 1654 | | | | |
| WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 ERT 1.13(b). In a eveal, hower, may a reply be limely filed after 50X (6) MODITIS from the mailing date of this communication. A policy of the provision of the provi | | | ears on the cover sheet with the c | correspondence address | | | | |
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| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) Attachment(s) Attachment(s) Attachment(s) A Description of References Cited (PTO-892) A Description of References Cited (PTO-892) A Description of References Cited (PTO-892) A Description of Interview Summary (PTO-413) Paper No(s)/Mail Date 5) Notice of Informal Patent Application | | | | | | | | |
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| 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) Outline Ou | | | | | | | | |
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Pursuant to the response filed 1/19/07 claims 1, 7, 12, 14 have been amended. Claims 1-5, 7, 12, 14 are now pending. Applicants' arguments filed 1/19/07 have been considered and found persuasive in part. The rejection of claim 1 under 35 U.S.C. §103 is withdrawn.

Claim 1 is objected to. The last line of the claim recites the following:

"the NH₂ groups is replaced"

This phrase contains a grammatical error. See also claim 7.

The following is a quotation of the first paragraph of 35 U.S.C. §112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it in such full, clear, concise and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 12 and 14 are rejected under 35 U.S.C. §112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

As noted previously, applicants have provided data (page 6) which shows that certain compounds are effective to mitigate the increase in triglyceride levels that result from administration of olive oil to mice.

Based on this data, applicants

are asserting that the compounds to which the claims are directed can be used to treat hyperlipidemia (or at least to suppress triglyceride levels). As it happens, however, none of the compounds listed in table 1 falls within the scope of the invention of claims 12 and 14. For example, the peptide originally designated "SEQ ID NO: 2" is the following:

This compound, however, does not fall within the scope of the rejected claims

Nor do any of the other compounds of table 1. Thus, applicants are attempting
to extrapolate from one structure to another. The reality in peptide
pharmacology is that minor changes in structure often eliminate activity. One
cannot "predict" retention of activity when structures are altered.

As stated in Ex parte Forman (230 USPQ 546, 1986) and In re Wands (8 USPQ2d 1400, Fed. Cir., 1988) the factors to consider in evaluating the need (or absence of need) for "undue experimentation" are the following: quantity of

experimentation necessary, amount of direction or guidance presented, presence or absence of working examples, nature of the invention, state of the prior art, relative skill of those in that art, predictability or unpredictability of the art, and breadth of the claims.

Given the absence of working examples (that show the skilled cardiologist how to use the claimed compounds) and the unpredictability in the art, "undue experimentation" would be required to practice the claimed invention.

In response to the foregoing, applicants have argued that claims 1 and 7 do not encompass peptides in which the C-terminal and N-terminal moieties are both unmodified, i.e., the following:

While this may be true for claims 1 and 7, it is not true for claims 12 and 14.

The rejection is maintained.

♦

Claims 1-5, 7, 12, 14 are rejected under 35 U.S.C. §112 second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

• Claim 1 recites (part ii) that the "NH group is replaced with a COOH group". The structure in question, prior to the functional group replacement, is the following:

There are two issues here. First, the phrase "the NH group" lacks antecedent basis. Note that there are three different "NH groups". Accordingly, it should be made clear which of the three is intended. Second, it is impossible to replace any of the -NH- groups with carboxyl, as this would generate a pentavalent carbon atom. What may be intended is to replace the imino group of proline with acetic acid (or more accurately, carboxyl-substituted methylene), thus generating the following:

Descriptive support for such a structure is tenuous at best (although that is another matter). At present, the basis of the rejection is that claim 1 is calling for the introduction of a pentavalent carbon atom.

• Neither of claims 12 or 14 is properly subgeneric to claim 1. Claim 1 mandates that, at a minimum, the C-terminal carboxyl group is amidated. Neither of the peptides in the claims at issue (claims 12 and 14) meets this limitation. Insofar as this ground of rejection is concerned, one option would be to cast claims 12 and 14 in independent form, so that it is clear exactly what is intended.

♦

Serial No. 10/517,355 Art Unit 1654

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a). The practice of automatically extending the shortened statutory period an additional month upon filing of a timely first response to a final rejection has been discontinued by the Office. See 1021 TMOG 35.

A SHORTENED STATUTORY PERIOD FOR RESPONSE TO THIS FINAL ACTION IS SET TO EXPIRE THREE MONTHS FROM THE DATE OF THIS ACTION. IN THE EVENT A FIRST RESPONSE IS FILED WITHIN TWO MONTHS OF THE MAILING DATE OF THIS FINAL ACTION AND THE ADVISORY ACTION IS NOT MAILED UNTIL AFTER THE END OF THE THREE MONTH SHORTENED STATUTORY PERIOD, THEN THE SHORTENED STATUTORY PERIOD WILL EXPIRE ON THE DATE THE ADVISORY ACTION IS MAILED AND ANY EXTENSION FEE PURSUANT TO 37 CFR 1.136(a) WILL BE CALCULATED FROM THE MAILING DATE OF THE ADVISORY ACTION. IN NO EVENT WILL THE STATUTORY PERIOD FOR RESPONSE EXPIRE LATER THAN SIX MONTHS FROM THE DATE OF THIS FINAL ACTION.

No claim is allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David Lukton whose telephone number is 571-272-0952. The examiner can normally be reached Monday-Friday from 9:30 to 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cecilia Tsang, can be reached at (571)272-0562. The fax number for the organization where this application or proceeding is assigned is 571-273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571-272-1600.

DAVID LUKTON, PH.D. PRIMARY EXAMINER